CLAIM AMENDMENTS

1. (Currently Amended) A camera comprising:

light emitting means that projects a beam of light onto an object to be measured; light-receiving detecting means that receives detects the light-reflected on projected toward and reflected from the object at a light-receiving detecting position corresponding to a distance to the object, and, based on the light-receiving detecting position, outputs a long-range side signal that increases in value as the object is positioned further away farther from said camera at a certain intensity of the received detected light, and a short range side signal that increases in value as the object is positioned closer to said camera at a certain intensity of the received detected light;

clamping means that compares—said the long-range side signal with a clamp signal, and, when—said the long-range side signal is larger than—said the clamp signal in value, outputs said long-range side signal; and, when—said the long-range side signal is smaller than—said the clamp signal in value, outputs—said the clamp signal;

calculation means that calculates a ratio between-said the short-range side signal and-a the signal output from said clamping means-to-output and outputs an output ratio signal;

conversion means that compares—said the output ratio signal with a predetermined infinity determination threshold value—se—as to determine whether the value of—said the output ratio signal corresponds to—the a shorter range side rather than the value of—said the infinity determination threshold value—or not,—then in—the former case and, if so, converts said the output ratio signal into a distance signal that is correlated with the distance of the object from said camera, and—in—the—latter—ease, if not, converts—said the output ratio signal into a predetermined distance signal having a fixed value;

luminance measuring means that measures the luminance of an outside light; and exposure control means that, when the luminance of the outside light measured by said luminance measuring means is lower than a-predetermined switchover luminance, which is determined based on film sensitivity, controls-the aperture value of a lens aperture to a fully open aperture value, and when the luminance of the outside light is higher than-said the switchover luminance, controls increases the aperture value of lens-to increase aperture according to the increase of the luminance of the outside light, wherein said the infinity determination threshold value being is set at the value that corresponds to the shorter range side among a first auto-focus (AF) signal and a second AF signal,

saidthe first AF signal-corresponding corresponds to the infinity determination distance that is set up as the furthest farthest distance measurable by said camera,; and

saidthe second AF signal-being is determined based on-said the switchover luminance.

2. (Currently Amended) A camera comprising:

light emitting means that projects a beam of light onto an object to be measured; light-receiving detecting means that-receives detects the light-reflected on projected toward and reflected from the object at a light-receiving detecting position corresponding to a distance to the object, and, based on the light-receiving detecting position, outputs a long-range side signal that increases in value as the object is positioned-further away farther from said camera at a certain intensity of the received detected light, and a short-range side signal that increases in value as the object is positioned closer to said camera at a certain intensity of the received detected light;

clamping means that compares-said the long-range side signal with a clamp signal, and, when-said the long-range side signal is larger than-said the clamp signal in value, outputs said long-range side signal; and, when-said the long-range side signal is smaller than-said the clamp signal in value, outputs-said the clamp signal;

calculation means that calculates a ratio between-said the short-range side signal and-a the signal output from said clamping means-to-output and outputs an output ratio signal;

conversion means that compares—said the output ratio signal with a predetermined infinity determination threshold value—so—as to determine whether the value of—said the output ratio signal corresponds to—the a shorter range side rather than the value of—said the infinity determination threshold value—or—not,—then in—the—former—case and, if so, converts—said the output ratio signal into a distance signal that is correlated with the distance of the object from said camera, and—in—the latter—case, if not, converts—said the output ratio signal into a predetermined distance signal having a fixed value;

luminance measuring means that measures the luminance of an outside light; and exposure control means that, when the luminance of the outside light measured by said luminance measuring means is lower than a-predetermined switchover luminance, which is determined based on film sensitivity, controls-the-aperture-value of a lens aperture to a fully open aperture value, and, when the luminance of the outside light is higher than-said the switchover luminance, controls increases the aperture value of lens-to

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increase aperture according to the increase of the luminance of the outside light, wherein

a second AF signal value corresponding to said the switchover luminance is set-up as said the infinity determination threshold value, and

<u>an</u> infinity signal value, which is a distance signal value corresponding to—<u>a</u> an infinity set distance, is within—the range of a distance signal value corresponding to—the a range of a permissible circle of confusion in—the <u>an</u> infinity determination distance, which is—the nearest distance—in the distance of distances subjected to—the <u>an</u> infinity determination.

- 3. (Currently Amended) The camera according to Claim 1, wherein-said the AF signal is-said the output ratio signal.
- 4. (Currently Amended) The camera according to Claim 1, wherein an aperture in said camera is regulated to-contract decrease as-said the aperture value increases.
- 5. (Currently Amended) The camera according to Claim 1, wherein—in ease said, when the infinity determination threshold value is set at the value of—said the second AF signal,—said a fixed value of—said the predetermined distance signal is within—the a range of a permissible circle of confusion of said camera when the object is placed at—the a point that yields—said the infinity determination threshold value.